

BIO-CEL* MBR RMA INFORMATION FORM

General Project & Contract Data

Module Type Wastewater Type Module Installation Date Project Number	No. Aff	No. of Modules fected Modules es Operated Since on		
OEM OEM Contact Phone Email	End-Us End-Us Phone Email	ser Contact		
discussed in this chapter persist, or other	difficulties arise, the opera	Chapter 12 - Troubleshooting. If any of the problems ator should contact MANN+HUMMEL Water & Fluid sary to determine the source of the problem.		
Serial Numbers Please list the serial numbers of the affected modules/cassettes. The serial numbers can be found in the delivery note or on the module itself. Please refer to the BIO-CEL* MBR Manual for the position of the serial number.				
Failure Description				
Operational Data Please fill in as much data as possible. If possible, attach trend graphs of these parameters.				
<u>Performance Parameter</u> Normalized Permeability [LMH/bar] Filtration Tank Temperature [°C]	Operating Range	Comments		
Filtration Flux [LMH] Backwash Flux [LMH] Average Filtration TMP [mbar] Average Backwash TMP [mbar]				
* $TMP = P_P(Header\ Pressure) - P_S(Hydrostatic\ Pressure)$ ** $Permeability_{Normalized} = \frac{Flux\cdot 1000}{TMP} \cdot 1.024^{(20-T[^{\circ}C])}$				
Biological Parameters COD Aeration Tank Influent [mg/L] COD Filtration Tank Influent [mg/L]	Operating Range	Comments		
MLSS Filtration Tank [g/L]				
Sludge Time to Filter (TFF) [s] Sludge Filterability Test (SFT) [mL]		-		
Sludge Volume Index (SVI) [mL/g]				

<u>Cleaning Parameters</u> Date of Last NaOCl Cleaning	Operating Range	<u>Comments</u>
NaOCl Concentration [mg/L]		
Date of Last Citric Acid Cleaning Citric Acid Concentration [mg/L]		
Pictures		
Please include any relevant pictures that	illustrate the issues.	
Description:		Description:
	 -	
Description:		Description: